DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Pre-Remedial Design Investigation and Baseline Sampling, Portland Harbor Superfund Site

DATE: June 22, 2018	**WEATHER:** Overcast, High ~75 degrees F

Personnel and Visitors Onsite:
Research vessel Cayuse – CDM Smith: Juee Trump; AECOM: Michaela McCoog; Geosyntec: Alison Clemens; Gravity Marine: John Schaefer, Maggie McKeon

Planned Activity:

- Collect surface sediment samples at stratified random, sediment management area (SMA) and co-located core locations on Vigor property.

Activity Completed:
A tailgate safety meeting was led by AECOM. Topics discussed during the safety meeting included fatigue, hydration, and overhead activities and hazards associated with site conditions.

Julee Trump performed oversight of surface sediment sampling from 08:00 to 16:50 on board the Cayuse. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:

- Position check at PH-2 indicated that the vessel GPS was reading within 1.2 meters of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP.
- 3-point composite surface sediment samples were collected from 5 SMA (1 collocated with boring location), and 1 stratified random locations near RM 8.2 at the mouth of Swan Island Lagoon (SIL) as summarized below. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area.
- A matrix spike/matrix spike duplicate (MS/MSD) sample was collected at SG-S191as noted below.

Status of Schedule & Priority Work:

- Sampling will continue into next week on the Cayuse with SMA, stratified random, and co-located core sampling locations. No work will be performed on Saturday (June 23, 2018).
- Remaining sample locations include blocked or attempted locations that could not be sampled at the time, and locations on private property with none or recently procured access agreements. Sampling on private property locations will continue at locations with property access agreements.

Issues/Concerns/Resolutions (include work performed that was not planned or anticipated):
The first grab at SG-S182 had recovery <20 cm (zero weight and pontoons raised). It appeared that AECOM was unsure if this was a bin 2 or 3 location and did not plan to fully weight the grab sampler for hard sediments. Julee Trump pointed out that the grab did not meet the 20 cm recovery criteria, which suggests that the bin 3 applies, which specifies the addition of all weights and setup for hard sediment to be implemented. After discussing it among themselves, Geosyntec and AECOM decided to add all weights for remaining 5 grabs. AECOM/Geosyntec crew member(s) were somewhat resistant to changing the setup of the sampler as it takes time to add weights and even more time to move the pontoons up and down. Two later grabs were washed out due to debris, so sample was completed in the 50-FT radius with the hard sediment setup (all weights and pontoons up).

SG-S183 was under a dry dock. The closest accessible area was sampled at approximately 80 to 87 FT from the target.

SG-S174 was partially under a pier and adjacent previously submerged pilings. Location was sampled at the edge of the 25-FT radius and within the 50-FT radius.

Samples Collected, Measurements Made, Photographs: (List Locations, Matrix & Sample type):
On the Cayuse, sediment samples were collected at the following sampling locations:

- PDI-SG-S191 – RM 8.2 SIL W, within 25-FT radius, sandy silt over silty clay with black sand pockets, trace sheen, welding rods. An MS/MSD sample was collected at this location.
- PDI-SG-S183-BL1 – RM 8.2 SIL W, ~80 to 87 FT from target, layered top to bottom: silt, sand, silty sand, silty clay; trace sheen
- PDI-SG-S174 – RM 8.1 SIL W, within 50-FT radius, silt over sandy silt, trace sheen
- PDI-SG-S171 – RM 8.1 SIL W, within 25-FT radius, silt over clayey silt
- PDI-SG-S182 – RM 8.2 SIL W, within 50-FT radius, thin silt and sand layers over silty clay, trace sheen, clam, oxidized worm tubes

- PDI-SG-B259 – RM 8.1 SIL W, within 25-FT radius, sandy silt over silty sand over clayey silt, welding rod

Note: Sediment descriptions are simplified and AECOM/Geosyntec provided more detailed sediment descriptions in their sampling notes. Trace components are not included in simplified descriptions unless related to sheen or biota.

Photographs of work were taken throughout the day on board the Cayuse and provided to EPA via email. Additional photos were taken and archived with a description included in the photolog Excel spreadsheet, which are maintained electronically in the ProjectWise project folder.

Borings Completed (Include total footage drilled for each boring):
None

Wastes Generated and How Handled:

- The piece of wood with heavy sheen recovered on June 21, 2018 was not previously removed from the boat. The bucket containing this wood was loaded into the AECOM van for transport to the lab, and proper disposal.
- Excess sediment and debris from today's sampling activities was rinsed back into the river per the FSP. No significant sheen was observed today.
- Disposable gloves, paper towels, and other general trash was containerized in a trash bag and removed daily for disposal to a municipal waste management dumpster.

Health and Safety Issues, Equipment Needs, Staffing:
Freshly rotated Gravity crew member was only wearing nitriles to operate the grab sampler. CDM Smith reminded Gravity that their HASP addendum calls for use of work gloves when handling heavy equipment.

Signature: Julee Trump **DATE** June 22, 2018